SOLAR, Zdenek, inz.

Arch insulation of glass melting furnaces. Sklar a keramik 14 no.12: 349-351 D '64.

1. Association of Technical Glass Enterprises, Sazava.

SOLAR, Zdenek, inz.

Fused quartz as a building material for glass melting furnaces. Sklar a keramik 13 no.2:33-37 F '63.

1. Sdruzeni podniku technickeho skla, Sazava.

SOLAR, Zdenek, inz.

Extinction organization of glass melting furnaces. Sklar a keramik 13 no. 6: 148-151 Je '63.

1. Sdruzeni podniku technickeho skla, Sazava.

SOLAR, Zdenek, inz. (Sazava)

Technical information conference in Brno. Sklar a keramik 15 no.3:69 Mr '65.

SOLARCZYK, T.

Lesson in grade 7 on the symmetric structure of climatic zones in Africa. p. 254. (GEOGRAFIA W SZKOLE, Warszawa, Vol. 7, no. 5, Sept./Oct. 1954.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan.1955, Uncl.

SOLARCZYK, T.

A lesson about the climate of Europe in grade 7. p. 36.
Vol. 9, no. 1, Jan./Feb. 1956 Warszawa
GEOGRAFIA W SZKOLE

SOURCE: East European Acession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

[illegible], ...

The determination of cottonizing capacity of flax; researches on the strength of adhesion of the elementary fibers of dry flax. p. 215.

(PRZEMYSL WLOKIENNICZY. Vol. 11, No. 5, May 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 10, October 1957. Uncl.

SOLAREK, Z.

Remarks on the quality of carding on flat cotton carding machines. I. (To be contd.) p. 35.

PRZEGLAD WLOKIENNICZY. (Stowarzyszenie Inzynierow i Technikow Przemyslu Wlokienniczego) Lodz, Poland. Vol. 12, no. 1, Jan. 1958.

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 7, July 1959.

Uncl.

AUTHORS: Igoshin, V.S., Engineer, Solarev, A.P. SOV-117-58-8-22/28

TITLE: The Culture of Production (O kul'ture proizvodstva)

PERIODICAL: Mashinostroitel', 1958, Nr 8, pp 40-41 (USSR)

ABSTRACT: Measures are recommended to increase the culture of production. The walls in the plants should be painted in light colors, the windows should be clean, flowers may be arranged at various places of the workshops. The tools should be properly arranged in special places. Difficult and laborious processes can often be mechanized by simple devices. The productivity of the work is increased by such measures.

1. **Industry - Production**

Card 1/1

SOLAREV, N., inzhener-sudovoditel'

Inertial characteristics of ships and barge trains. Rech. transp. 22 no.4:39-41 Ap '63. (MIRA 16:4)

(Ship handling)

SOLAREV, N.F., inzh.-sudovoditel'

Estimating the space and time required to stop a vessel with its power turned off. Rech.transp. 18 no.9:14-15 S '59. (MIRA 13:2)

(Ship handling)

OL'SHAMOVSKIY, S.B., inzh.; SOLAREV, N.F., inzh.-kapitan

Increasing the effectiveness of auxiliary steering apparatus on passenger ships. Rech.transp. 18 no.10:16-17 O '59. (MIRA 13:2)

(Ships--Steering gear)

SOLAREV, N., inzh.-sudovoditel'

Curves of the pitching and rolling of small vessels on reservoirs. Rech. transp. 19 no.10:52-54 O '60. (MIRA 13:11)
(Reservoirs--Inland navigation)
(Ships—Hydrodynamics)

SOLAREV, N., inzh.; OL'SHAMOVSKIY, S., inzh.

Relative displacement of ships in passing. Rech. transp. 20 no. 3:53 Mr '61. (MIRA 14:5)
(Ship handling)

SOLAREV, N., inzh.-sudovoditel'

Approximation method for determining the inertial properties of barge trains being pushed. Mech. transp. 20 no.8:44 Ag '61. (MIRA 14:10)

(Towing) (Inertial navigation)

SOLAREV, N., inzh.-sudovoditel'

Safety zone for the maneuvering of triple-screw ships. Rech. transp 21 no.4:39-40 Ap '62. (MIRA 15:4)
(Propellers) (Ship handling--Safety measures)

SOLAREV, N., inzh.-sudovoditel'

How to determine the momentum of a ship. Rech. transp. 22 no.9:51-52 S '63. (MIRA 16:10)

PAKHOMOV, V.B., kand. tekhn. nauk; NAUMOV, A.I., inzh.; SHELMANOV, V.S., inzh.; KONSTANTINOV, V.P., inzh.; KOSTIN, A.M., inzh.; SEMENOV, YU.K., inzh.; PYATLIN, A.A., kapitan; VAGANOV, G.I., kand. tekhn. nauk; SVIRIDOV, A.A., inzh. KHODUNOV, M.Ye., kand. yurid. nauk; SAPOGOVA, A.Ye., inzh.; SOYUZOV, A.A., doktor tekhn. nauk, prof., red.; VASIL'YEV, A.V., kand. tekhn. nauk; ALEKSEYEV, V.I., red.; KUSTOV, L.I., red.; VITSINSKIY, V.V., red.; BORISOV, I.G., red.; SOLAREV, N.F., red.; ANDRIYENKO, V.I., red.; SUTYRIN, M.A., red.; GOLOVNIKOV, V.I., red.; ZOTOVA, V.V., red.

[Manual for the navigator of a river fleet] Spravochnik sudovoditelia rechnogo flota. Izd.2., dop. Moskva, Transport, 1965. 423 p. (MIRA 18:2)

1. Gor'kovskiy institut inzhenerov vodnogo transporta (for Pakhomov, Semenov, Vaganov, Vasil'yev). 2. Moskovskiy rechnoy tekhnikum (for Naumov). 3. Volzhskoye ob"yedinennoye rechnoye parokhodstvo (for Shelmanov, Sapogova). 4. Ministerstvo rechnogo flota (for Konstantinov, Sviridov). 5. Kazanskiy port (for Kostin). 6. Moskovskoye rechnoye parokhodstvo (for Pyatlin).

L 05892-67

ACC NR: AR6025701 (N) SOURCE CODE: UR/0398/66/000/004/V010/V010

AUTHOR: Solarev, N. F.

TITLE: The results of actual tests to determine the inertia characteristics of ships and ship trains

SOURCE: Ref. zh. Vodnyy transport, Abs. 4B57

REF SOURCE: Tr. Gor'kovsk. in-ta inzh. vodn. transp., vyp. 71, 1965, 70-75

TOPIC TAGS: ship, braking, braking force, ship braking, ship motion, inertial characteristic

ABSTRACT: It is suggested that the results of tests be evaluated according to the following relative indicators: r = the average specific braking, coasting, and running force exerted per ton of displacement and 'k = the coefficient of motion nonuniformity. These terms are determined by the formulas

$$r=\frac{51v_0^2}{S},\quad k_n=\frac{S}{t\cdot v_0}.$$

where v_0 is the velocity of motion before the maneuver in m/sec, while S and t

Card 1/2 UDC: 629.1.075

L 05[illegible]-67

ACC NR: AR6025701

are the path and time of braking, coasting, and running. The values v_0, S and t are found from the actual testing of ships. The average specific braking force r and the specific power are correlated by the relationship $r_r = 4{,}8\left(\frac{N_e}{D}\right)^{0{,}59}$, where N_e is the total shaft horsepower of the main engines and D is the displacement. The coefficient of nonuniformity of motion during braking is within the limits $k_{nub} = 0.496$ to 0.554. The indicators r and k for coasting and speed-up (running), respectively, are expressed: $r = 1{,}56\left(\frac{N_e}{D}\right)^{0{,}65}$ and $k_{nuc} = 0.427$, $r_r = 2.50\left(\frac{N_e}{D}\right)^{0{,}73}$ and $\bar{k}_{nur} = 0.685$

The relative indicators r and k_{nu} facilitate the determination of the approximate inertia-characteristics value of a ship or a ship train. Orig. art. has: 2 figures and 1 table. Ye. Chestnov. [Translation of abstract]

SUB CODE: 13/

Card 2/2

CERVENY, Ladislav, inz.; SOLARIK, Pavel

Some experience with the production and application of preserving wax. Stroj vyr 11 no.9:458 S '63.

1. Statni vyzkumny ustav ochrany materialu, Praha.

SIAVKOVIC, Jovan; SOLARIC, Stojan

Clinical characteristics and patho-anaotmical changes in acute tubular necrosis. Srpski arh. celok. lek. 87 no.7-8:613-619 Jl-Ag '59.

1. Interna klinika A Medicinskog fakulteta u Beogradu, upravnik: prof. dr Branislav Stanojevic; Institut za patolosku anatomiju Medicinskog fakulteta u Beogradu, upravnik: prof. dr Živojin Ignjacev.
(KIDNEY DISEASES case reports)

SOIARIC,Stojan; JOKANOVIC,Rosanda; KAPETANOVIC,Ilija

Fibroelastosis of the endocardium in a 12-year-old child. Srpski arh. celok. lek. 87 no.9:825-831 S '59.

1. Patolosko-anatomski institut Medicinskog fakulteta u Beogradu, upravnik: prof. dr Zivojin Ignjacev; Decja klinika Medicinksog fakulteta u Beogradu, upravnik: prof. dr Matija Ambrozic.
(ENDOCARDIAL FIBROELASTOSIS in inf.& child)

SECUJAC, Branko; SOLARIC, Stojan; POPADIC, Slavko

Fiedler's myocarditis in a small child. Srpski arh. celok. lek. 88 no.1:91-94 Ja '60.

1. Decje odeljenje Opste bolnice "Dorce Joannovic" u Zrenjacinu, Sef: dr Branko Secujac; Institut za patolosku anatomiju Medicinskog fakulteta Univerziteta u Beogradu, Upravnik: prof. dr Zivojin Ignjacev.
(MYOCARDITIS in inf. & child)

CERVENY, Ladislav; SOLARIK, Pavel

Protection efficiency of domestic and foreign preservation oils. Ropa a uhlie 4 no.12:381 D '62.

1. Statni vyzkumny ustav ochrany materialu G.V. Akimova, Praha.

Z/031/62/010/012/002/002
D006/D102

AUTHORS: Červený, Ladislav, Engineer, Loydová, Božena, and Solařík, Pavel

TITLE: Preservative wax for corrosion protection of products in the tropics

PERIODICAL: Strojírenská výroba, no. 12, 1962, 606-607

TEXT: Problems of corrosion protection of products during their transportation in the tropics are briefly dealt with. Paraffin-polyethylene-ceresine base waxes used so far failed to provide satisfactory corrosion protection in the tropics mainly due to their low drop point. A new polyethylene-modified, paraffin-base protective wax, containing corrosion-inhibiting and hydrophobic additives, is produced by the Východočeské chemické závody, n.p., závod Synthesia (East-Bohemian Chemical Works, n.p., Synthesia Branch Plant) in Uhříněves. Marketed under the trade name SILIVOSK, the product contains silicon oil as hydrophobic additive. Its drop point is 100°C and it forms a solid film of wax consistency on the product. It is

Card 1/2

GANCHEV, G.; SOIAROV, Tr.

Results of surgical therapy of Basedow's disease. Khirurgiia, Sofia 10 no.9:809-816 1957.

1. Vissh meditsinski institut; Sofiia katedra po khirurgichna propedevtika Zav. katedrata: prof. G. Kapitanov.
(HYPERTHYROIDISM, surgery,
results (Bul))

GANCHEV, G.; MIKHOV, Khr.; SOLAROV, Tr.

Results of treatment of varicose veins by the Moskovich surgical method. Khirurgiia (Sofiia) 18 no.3:327-334 '65.

1. Vissh meditsinski institut, Sofiia, Katedra po propedevtika na khirurgichnite bolesti (rukovoditel: prof. G. Kapitanov).

SOLAROVA, V.

Succinylcholine iodide. Cesk. farm. 14 no.2:95-96 F '65.

MIKUCKI, Stanislaw, mgr inz.; SOLARSKI, Stanislaw, mgr inz.

New chuck design solutions. Mechanik 37 no.4:196-201 '64.

1. Technical University, Warsaw (for Mikucki).
2. Special Machine Tools Factory, Warsaw.

SOLARSKI, Zbigniew.

Treatment of periphlebitis retinalis; haemorrhagia juvenilis, retinitis proliferans. Klin. ocsna 25 no.4:267-272 1955.

1. Z Kliniki Chorob Oczu A M w Krakowie. Kierownik: prof. dr. M.Wilczek.
(RETINA, blood supply, periphlebitis, ther.)

SOLARSKI, Z.

EXCERPTA MEDICA Sec.12 Vol.11/9 Ophthalmology Sept 57

1394. SOLARSKI Z. Klin. Chor. Oczu A. M., Kraków. * Naevus flammeus faciei et glaucoma. Naevus flammeus faciei and glaucoma KLIN. OCZNA 1957, 27/1 (55-58)

An incomplete case of the Sturge-Weber syndrome is described. The eye became blind, but was not removed because of the lack of consent by the patient. The origin of the secondary glaucoma, which developed during the disease is discussed. The naevus and the glaucoma were not accompanied by CNS symptoms.

Szmyt - Łódź

SOLARSKI, Zbigniew

Pannus trachomatosus in children. Klin.oczna 30 no.3:287-290 '60.

1. Z Kliniki Chorob Oczu A.M. w Krakowie Kierownik: prof. dr med. M.Wilczek.
(TRACHOMA compl)

SCHWARZ, Stefan; ZAMELLO, Jerzy; KLIMEK, R[illegible]; MARCZYNSKI, Kazimierz; MATECKI, [illegible]; MILEWICZ, Stanislaw; SOLARZ, Edward

Statistical analysis of the [illegible] material of the 1st Obstetrical and Gynecological Clinic of the Academy of Medicine in Krakow during the period [illegible]-[illegible]. Ginek. pol. 33 no.[illegible] Ja-F '62

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Krakowie; kierownik: prof.dr.med. S.Schwarz.

*

SCHWARZ, Stefan; KLIMEK, Rudolf; MADEJ, Jan; MATUSZEWSKI, Henryk; OSUCHOWSKI, Jerzy; SOLARZ, Edward

Oxytocin analogues in obstetrics and gynecology. Ginek. pol. 34 no.4:487-490 '63.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Krakowie Kierownik Kliniki: prof. dr med. S. Schwarz.

MADEJ, Jan; MATUSZEWSKI, Henryk; CIELECKI, Jerzy; SOLARZ, Edward

Ectopia decidua on the vaginal portion of the uterus. Ginek. Pol. 36 no.5:569-575 My '65.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Krakowie (Kierownik: prof. dr. med. S. Schwarz).

SKLARZ, Jerzy

Personal domestic farming on collective farms of the Szczecin Voivodeship. Prace przyrod roln Szczecin 19 no. 1:1-113 '63

ACC NR: AP7003456 SOURCE CODE: PO/0097/66/007/004/0347/0362

AUTHOR: Solarz, L. (Warsaw)

ORG: none

TITLE: Aeromagnetic flutter of a plane duct of finite length

SOURCE: Proceedings of vibration problems, v. 7, no. 4, 1966, 347-362

TOPIC TAGS: vibration, ionized gas, magnetogasdynamics, magnetogasdynamic generator, ionized gas flow, self excited vibration, aeromagnetic flutter

ABSTRACT: Possitilities of a self-excited vibration in the magnetic field within a plane duct's walls with ionized gas flowing through the duct were investigated. Linear equations were used to study the problem. Perfect mechanical and electric properties of the gas and infinite rigidity of the duct walls, except for the finite section, were assumed. The actions of the flow field and magnetic field were computed by means of the Laplace transform. The computation results were used to determine the gas flow velocity at which loss of stability takes place. Stability testing was based on a solution obtained by the method of finite differences. Diagrams in the article illustrate individual solutions, by which the magnetic field

Card 1/2

ACC NR: AP7003456

effect upon aeromagnetoflutter regions is determined. The model considered was a plane duct, but the method adopted can also be used for cylindrical ducts. Orig. art. has: 5 figures and 69 formulas. [Based on author's abstract] [DR]

SUB CODE: 20/SUBM DATE: 25Jun66/ORIG REF: 004/OTH REF: 001/

Card 2/2

S/124/63/000/001/011/080
D234/D308

34.4107

AUTHORS: Kaliski, Sylwester and Solarz, Lech

TITLE: Aeroelastic vibration and stability of a deformable rotating rocket in a linearized flow

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 1, 1963, 30, abstract 1B168 (Proc. Vibrat. Probl. Polish Acad. Sci., 1962, v. 3, no. 1, 57-68 (Eng.: summaries in Pol. and Rus.))

TEXT: The differential equation describing small vibration of an elastic rotating rocket in a supersonic linearized stream is reduced to Volterra's integral equation, for which the critical combinations of parameters are found. An example is given of the design of a rigid two-stage rocket with an elastic connection between the stages. It is pointed out that the velocity of rotation of the rocket substantially affects the critical velocities and the character of aeroelastic phenomena.
[Abstracter's note: Complete translation]

Card 1/1

KALISKI, Sylwester; SOLARZ, Lech

Aero-magneto-flutter of a plate flown past by a perfectly conducting gas in magnetic field with isotropic action. Proceed vibr probl 3 no.3:213-225 '62.

1. Department of Vibrations, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

KALISKI, Sylwester; SOLARZ, Lech

Aero-magneto-flutter of a plate flown past by a perfectly conducting gas in magnetic field with anisotropic action. Proceed vibr probl 3 no.3:227-240 '62.

1. Department of Vibrations, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

SOLAZEMNIECE, G.

USSR/Human and Animal Physiology - Blood. Blood Chemistry. T-4

Abs Jour : Ref Zhur - Biol., No 10, 1958, 45872

Author : Solazemniece, G.

Inst : AS Latv SSR.

Title : Biochemical Investigations of Blood Proteins. II. Studying the Effects of a Diet upon Protein Blood and Spleen Compositions.

Orig Pub : Izv. AN LatvSSR, 1956, No 7, 89-97.

Abstract : Insufficient diets, such as a diet consisting of white bread toast and water, caused a decrease of protein contents in the liver and the spleen of rats, as well as a 3 percent decrease of plasma proteins, and a 9 percent decrease of the blood's globine. It also caused the Fe content of the blood to diminish and intensified its being deposited in the liver and in the spleen.

Card 1/2

SOLAZEMNIYETSE, G.D., Cand Biol Sci -- (diss) "Data for a ~~the~~ biochemical ~~characteristics~~ of alimentary disorders of ~~xxx~~ hemopoiesis." Riga, 1956, 22 pp (Acad Sci LSSR. Inst of Experimental Medicine) 200 copies (KL, 28-58, 104)

SOLAZEMNIECE, G. (Riga)

Biochemical research on blood proteins. Report 8. Determination of the globulin amount in the blood with the colorimetric micromethod. Vestis Latv ak no.4:163-168 '60. (EEAI 10:7)

1. Latvijas PSR Zinatnu akademija, Eksperimentalas medicinas instituts.
(BLOOD PROTEINS) (GLOBULINS) (COLORIMETRY)

SOLAZHENITSYN, G.D., YANSON, I.L., SHMIDT, A.A., MERGINA, G.P., (USSR)

"The Influence of Triethylenethiophosphoramide on Blood Protein Synthesis in Anemia-sick Rabbits."

Report presented at the 5th Int'l. Biochemistry Congress. Moscow, 10-16 Aug 1961.

SOLAZEMNIECE, G. (Riga)

Comparative data on accumulation of iron in the liver, spleen, and bone marrow of the rat according to the diet efficiency. Vestis Latv ak no.1:115-120 '61. (EEAI 10:9)

1. Latvijas PSR Zinatnu akademija, Eksperimentalas un kliniskas medicinas instituts.

(LIVER) (SPLEEN) (MARROW) (IRON)

MERGINA, G.; SOLAZEMNIYETSE, G. [Solazemniece, G.]

Materials on the study of the mechanism of the effect of triethylene thiophosphoramide (ThioTEPA) on animals. Report 1. Methods of studying the biosynthesis of blood proteins in experimental animals [with summary in English]. Vestis Latv ak no.1:123-130 '62.

1. Institut eksperimental'noy i klinicheskoy meditsiny AN Latviyskoy SSR

44033

S/851/62/000/028/012/015
D296/D307

27 1220

AUTHOR: Solazemniyetse, G.D.

TITLE: The influence of ionizing radiation on the blood proteins of rats

SOURCE: Akademiya nauk Latviyskoy SSR. Institut eksperimental'noy i klinicheskoy meditsiny. Trudy. no. 28, 1962. Znacheniye faktora pitaniya v profilaktike luchevoy bolezni, no. 4, 141 - 158

TEXT: 156 male white rats each weighing 300 - 350 g were used. One group of animals was kept for 3 - 4 weeks on a normal laboratory diet, a second group on wheat biscuits enriched with a protein-vitamin complex, and a third group was fed wheat biscuits (representing a deficient diet). In a preparatory period prior to irradiation, it could be established that a diet of wheat biscuits enriched with a protein-vitamin complex did not influence the chemical composition of the blood, the liver, or the spleen. In animals kept on wheat biscuits alone, however, the iron content of the blood decreased by 4.8 % and the globin content decreased by 10.3 %. In these animals

Card 1/2

The influence of ionizing radiation ...

the globin contained a higher proportion of tryptophan (+ 4 %). Radiation caused a significant decrease in the globin content. The relatively higher proportion of tryptophan within the globin content in the blood of the latter group became even more marked. The blood iron level showed no significant changes. There are 7 tables.

Card 2/2

44034

S/851/62/000/028/013/015
D296/D307

27 1220

AUTHOR: Solzaemniyetse, G.D.

TITLE: Quantitative changes in the iron content of the hemopoietic organs of rats in differing nutritional states, exposed to ionizing radiation

SOURCE: Akademiya nauk Latviyskoy SSR. Institut eksperimental'noy i klinicheskoy meditsiny. Trudy. no. 28, 1962. Znacheniye faktora pitaniya v profilaktike luchevoy bolezni, no. 4, 159 - 169

TEXT: 30 adult rats each weighing between 250 g and 300 g, and 30 young rats each weighing 60 - 70 g were used in the experiment. Each group was further divided into 3 subgroups. The first of these was kept on the standard laboratory diet; the second was kept for 20 days on a deficient diet consisting entirely of wheat biscuits. The animals of the third subgroup were kept for 20 days on the same deficiency diet as those in the second subgroup, but were then placed for 30 days on a reinforced diet consisting of wheat biscuits enriched with 25 % of a protein-vitamin complex. The iron contents

Card 1/3

Quantitative changes in the ...

of the blood and the organs were next investigated. Accumulation of iron in the hemopoietic organs of the animals kept on a deficiency diet, indicated disorders of the iron metabolism, which was most probably due to an impairment of the hemopoietic function. There was a decrease, as yet unexplained, in the iron content of the diaphragm and the myocardium. After addition of the protein-vitamin complex to the diet (3rd subgroup), the iron level in the hemopoietic organs decreased and that of the diaphragm increased again, but only in the adult animals. In young animals, the iron content of the diaphragm continued to decrease. The iron content of the myocardium also continued to decrease in both adults and young, even after addition of the protein-vitamin complex to the diet. In the second series of experiments 50 rats were kept on a balanced diet consisting of wheat biscuits enriched with a protein-vitamin complex and 50 other rats on a deficient diet consisting of wheat biscuits alone. Each group was divided into 5 subgroups of 10 rats. Five rats in each subgroup were exposed to a single γ dose of 700 r, emitted by the ГУТ Co-400--1 (GUT Co-400-1) apparatus, and the other 5 rats served as control. The iron levels in the blood and the hemopoietic organs were investigated 36 hours, 5, 10, 20 and 50 days after the exposure. In the

S/851/62/000/028/013/015
D296/D307

Quantitative changes in the ...

first few days after exposure, there was an increase in the iron content of the spleen and the bone marrow, more marked in animals on the balanced diet. There are 3 tables.

Card 3/3

SOLAZEMNIECE, Genoveva, kand. biol. nauk; FELDHUNE, A., red.; PILADZE, Z., tekhn. red.

[Composition of blood and its significance in the human organism] Asins sastavs un ta nozime cilveka organisma. Riga, Latvijas PSR Zinatnu Akademijas izdevnieciba, 1963. 75 p. (MIRA 16:5)

(BLOOD—ANALYSIS AND CHEMISTRY)

BAKLAGIN, A.I., kand. tekhn. nauk; VELENTSEY, Ye.V., inzh.; SOLBOLEVA, N.P., inzh.

Basis for standards for sampling bottom residues in the shale-gas and oil-shale refining industries. Teploenergetika 5 no.3:33-36 Mr '58. (MIRA 11:4)

1. Vsesoyuznyy institut po pererabotke slantsev.
(Oil shales) (Ash (Technology))

SOLC, Aleksandar, inz.

Catalytic oxidation of bitumen. Nafta Jug 13 no.11/12: 512-519 N-D '62.

1. Rafinerija nafte, Rijeka.

SOLC, A.

"Industrial chemistry" by K. Petkovic, M. Ciculic, P. Car, Z. Gretic, M. Knapp, S. Kvesic, G. Klar, V. Aksin, G. Dolibic, I. Sindija, D. Simin, B. Prohaska, A. Cubranic, A. Bastijanic, J. Sabo, Z. Singer. Reviewed by A. Solc. Bul sc Youg 7 no.4/5: 124-125 Ag-O '62.

1. Rédacteur d'extraits, "Bulletin scientifique."

SOLC, Aleksandar, inz. (Rijeka)

On some methods of testing bitumen. Gradevinar 14 no.6: 192-194 Je '62.

SOLC, Aleksandar, inz.

Catalytic oxidation of bitumen. Nafta Jug 13 no. 11/12: 512-519 N-D '62.

1. Petroleum Refinery, Rijeka.

Solc, F. ; Masek, V.

Solc, F. ; Masek, V. Practical directives for improving building quality. (To be contd.) p. 15.

Vol. 5, no. 1, Jan. 1957
POZEMNI STAVBY
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, No. 5, May 1957

Solc, F. ; Masek, V.

Solc, F. ; Masek, V. Defects in the course of building assembly work. p. 66.

Vol. 5, no. 2, Feb. 1957.
POZEMNI STAVBY
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, No. 5, May 1957

CZECH

535.515

7349. A new kind of double refracting filter. I. Solc. *Czech. J. Phys.*, 4, 53–66 (*Feb.*, 1954) *In Russian.* Summary (1 p.) *in English.*

The filter uses a number of double refracting plates in series, between crossed polaroids. The plates are of equal thickness and can be ground from one piece of material. Two modifications are considered. In the first, even plates have their axes inclined at a small angle to the odd plates. The second filter has the axes of the plates arranged like a fan, consecutively increasing by a constant small angle. The theory of the filter is given and some practical results.

R. W. FISH

SOLC, I.

Solc, I. New method for determining optical rotation. p. 474. CESKOSLOVENSKY CASOPIS PRO FYSIKU. Praha. Vol. 4, no. 4, Sept. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

SOLC, I.

Solc, I. Low-frequency vibrations of square plates of ammonium phosphate. p. 539. CESKOSLOVENSKY CASOPIS PRO FYSIKU. Praha. Vol. 4, no. 5, Oct. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

SOLC, I.

Solc, I. Corresponding bifragment filter. p. 607. CESKOSLOVENSKY CASOPIS PRO FYSIKU. Praha. Vol. 4, no. 5, Oct. 1954.

SO: Monthly List of East European Accessions,(EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

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CZECHOSLOVAKIA/Optics - Physical Optics K-5

Abs Jour : Ref Zhur - Fizika, No 2, 1958, No 4503

Author : Solc Ivan
Inst : Not Given
Title : Improvement of a Polarization Instrument

Orig Pub : Ceskosl. casop. fys., 1954, 4, No 5, 607

Abstract : Description of an improvement of an instrument for the investigation of mechanical stresses in solids with the aid of polarized light.

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encountered in the production of conventional optical products. The original assertion about the use of oblique cuts for the production of filters had to be

SOLC, I.

Graphic solution of double split filters. p. 114.
CESKOSLOVENSKI CASOPIS PRO FYSIKU Vol. 5, No.1, Jan. 1955

SO: Monthly East European Accession (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

CZECHOSLOVAKIA/Optics - Physical Optics K-5

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 11731

Author : Solc Ivan
Inst : Not Given
Title : Polarization Prisms Made of ADP (Ammonium Diphosphate).

Orig Pub : Ceskosl. casop. fys., 1955, 5, No 2, 230-231

Abstract : Description of the construction of a prism, analogous to the Glan-Thomson prism, both halves of which are cut from a single piece of artificially grown crystal of ammonium diphosphate.

Card : 1/1

SOLC I

534.133

9489. Low-frequency vibrations of rectangular ADP plates. I. Solc. *Czech. J. Phys.*, 5, *No.* 2, 245–71 (*April*, 1955). In Russian, with summary in English (1½ *pp*).

The nodal patterns were examined with dust figures and the resonant frequency identified electrically. The work is divided into four sections, (1) Identification of flexural and longitudinal modes in plates 20 mm × 20 mm × 4 mm rotated around the *X*-axis in 10° steps from 1° to 90° from the *Y*-axis. (2) The frequency dependence on the angle of cut was determined and compared with theory. Discrepancies were observed for the longitudinal modes, (3) Flexural modes were followed in the transition from plate to bar form. It was found that to each flexural mode of the plate there corresponds either a torsional mode of the bar, or a flexural mode, or that there is no continuation. (4) Longitudinal modes were followed in the same way. There is a direct correspondence between bar and plate.

W. BARDSLEY

Solc, I

4

535.56

8670. A new method of determining optical rotation. I. Solc. Letter in *Czech. J. Phys.*, **5**, No. 2, 272–3 (April, 1955) In Russian.

A new type of prism is described which is placed on the simplest conventional type of polarimeter, with a wafer of quartz, in the position normally occupied by the tube of solution. Visual inspection tells immediately whether the wafer is *d*- or *l*-quartz. Two equal right-angle triangular blocks of quartz are ground up. One is of *l*- and the other of *d*-quartz. The optical axes are parallel to the long sides enclosing the right angles. Let α be the angle opposite the side. If α is greater than 40° the two blocks are cemented together by Canada balsam on their hypotenuse faces forming a parallelepiped. The polarimeter is adjusted for || light, then illuminated with white light. Down axial plane of the block the *d*- and *l*-rotations compensate; on opposite sides of the plane the block exhibits a resultant *d*- or *l*-rotation. Turning the polarizer gives vertical dark bands in the centre of the field, trailing off into coloured fringes on the outside. Putting in a slip of *d*-quartz clearly causes the black fringes to move sideways towards the angle α of the *d*-rot. component of the parallelepiped. The displacement X of the dark fringes in terms of wafer thickness L is given by $X = 0{\cdot}5L \cot \alpha$.

C. R. S. MANDERS

SOLC, I.

The use of double refraction in the study of crystallization. p. 736.
(POKROKY MATEMATIKY, FYSIKY A ASTRONOMIE, Vol. 1, No. 5/6, 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

Solc, Ivan

Czechoslovakia/Radiophysics - Generation and Conversion of RF Oscillations, I-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35277

Author: Solc, Ivan

Institution: None

Title: Simple Method of Measuring the Q of a Piezoelectric Cavity

Original Periodical: Ceskosl. casop. fys. 1956, 6, No 3, 358-360; Czech

Abstract: None

Card 1/1

SOLC, I.

A simple structure for a microinterferometer. p. 63.

(Jemna Mechanika A Optika. Vol. 2, no. 2, Apr. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

SOLC, I

CZECHOSLOVAKIA/Optics - Physical Optics K-5

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 14194

Author : Solc I.
Inst : Not Given
Title : Superposition of Natural and Artificial Birefrin e in One Plate.

Orig Pub : Jemna mech. a opt., 1957, 2, No 3, 92-94

Abstract : Observations and measurements are made in monochromatic and white light for the purpose of investigating the photoelastic phenomena in anisotropic materials. Instead of the Pockels' theory, the phenomena at various orientations of the mechanical force applied to the crystalline plate are calculated with a highly simplified approximate method, which leads to a satisfactory agreement with experiment. Many practical examples of photoelasticimetry on anisotropic crystals are cited.

Card : 1/1

SOLC, I.

Reflection method for the measurement of frosted surfaces.

P. 181. (JEMNA MECHANIKA A OPTIKA) (Praha, Czechoslovakia) Vol. 2, no. 6, Dec. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, May 1958

CZECHOSLOVAKIA/Solid State Physics - Structural Crystallography. E.

Abs Jour : Ref Zhur - Fizika, No 7, 1959, 15381

Author : Solc, Ivan
Inst : -
Title : New Type of X-Ray Spectrograph

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 5, 590-596

Abstract : See Ref Zhur Fizika, 1959, No 2, 3221

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SOLC, I.

A new arrangement of the X-ray spectrograph.

p. 590 (CESKOSLOVENSKY CASOPIS PRO FYSIKU) Vol. 7, no. 5, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

Solc I.

CZECHOSLOVAKIA/Optics - Optical Methods of Analysis K-8

Abs Jour : Ref Zhur - Fizika, No 3, 1958, No 7230

Author : Solc Ivan
Inst : Not Given
Title : Optical Measurement of Thickness or of the Coefficient of Refraction of Rods and Fibers

Orig Pub : Chem. prumysl, 1957, 7, No 6, 301-302

Abstract : Description of a simple method for determining the coefficient of refraction of oval rods and liquids contained in convex vessls, from the position of the image of the slit (or from the dimensions of the image of a double slit), if their diameter is known, and conversely, determining the diameter of the rods and fibers if their index of refraction is known.

Card : 1/1

SOLC, I.

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V New type of x-ray spectrograph. Ivan Šolc (Mineral Research Inst., Turnov). *Czechoslov. J. Phys.* 8, 366-73 (1958)(in Russian).—The new x-ray spectrograph differs from Seeman's spectrograph in that the crystal being measured gradually rotates in its azimuth. The traces which are produced from each lattice plane satisfying the reflection condition for x-rays lie on an ellipse. The dimensions of the ellipse indicate the exact orientation of crystal cuts; the accuracy of the measurements is better than 1'. Exposures are practically as short as with spectrographs having a fixed crystal, so that the new arrangement is of practical value, e.g., in the production of piezoelectric crystals. 4 references. A. Kremheller

3

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mm 1/1

CZECH/37-58-6-22/30

AUTHOR: Šolc, Ivan

TITLE: X-ray Spectrograph for Accurate Verification of the Cutting Angle of Crystal Plates (Rentgenový spektrograf pro přesnou kontrolu úhlu řezu krystalových destiček)

PERIODICAL: Československý Časopis Pro Fysiku, 1958, Nr 6, pp 739 - 740 (Czech)

ABSTRACT: The instrument serves for measuring the angle between a given lattice plane and the surface of the plate and for ensuring a required direction of the line of intersection of these two planes. The radiation is recorded by means of an ion counter. General determination of the orientation of the cuts was hitherto not possible without applying a photographic method. The spectrograph principle follows from a modification of the Seeman spectrograph and is described in earlier work of the author (Ref 1). It is assumed that the design of this spectrograph is fully equivalent except for the fact that only the crystal oscillates whilst the film remains stationary. In this case, only the vertical line will be exposed on the film since all the other traces of the ellipse will fall approximately into the same vertical line. In the case of large ellipse diameters, slight

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X-ray Spectrograph for Accurate Verification of the Cutting Angle of Crystal Plates

deviations occur which can be determined; however, they have no influence on the function or on the accuracy of the instrument and therefore they can be disregarded. If a suitable radiation detector is placed into this spot, it will be found that radiation will always be present in that position of the spectrograph where the Bragg condition is fulfilled. The detector must have an inlet window in the form of a vertical slit and for current practical requirements it should be about 0.5 x 3 cm. The sharpness of the maximum will be the higher the nearer the crystal approaches the ideal single crystal. Mosaic crystals have a non-sharp maximum. For current piezoelectric and optical crystals, the adjustment can be made with an accuracy higher than 1 min. The top and the bottom points of the ellipse correspond to such an azimuth of the plate for which the line of intersection of the lattice plane with the plane of the plate is horizontal. The extreme point, the left and the right, correspond with the direction of a vertical intersection line. In the case of a horizontal position, the X-rays are

 reflected from the plate if the angle between the plane

X-ray Spectrograph for Accurate Verification of the Cutting Angle of Crystal Plates

of the plate and the incident radiation is the Bragg angle of the respective lattice plane. In the case of the line of intersection being vertical, the radiation is reflected from the plate if the deflection angle between the plane of the plate and the incident beam equals the sum of the Bragg angle and the deflection angle or, in some cases, the difference between these two angles (see Fig 2, Ref 1). As was stated earlier, all the points of the ellipse form on a stationary film a single vertical line (according to accurate theoretical calculations this line is slightly deflected at its ends towards the primary beam). The achieved results indicate that it is possible to apply lattice planes with very slight reflection abilities as reference planes and that the accuracy of measurement is appreciably higher than of photographic methods. All the manipulation can be automated so that work can be carried out outside the radiation zone. For complete orientation of the plate only about 1 minute is required and in the case of automation of the manipulation the required time is shorter

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Part 2. - Ceramics. Glass. Binders. Concretes. - Glass. H

Abs Jour: Ref. Zhurnal Khimiya, No 21, 1958, 71540.

Author : Ivan Solc.
Inst :
Title : Optical Evaluation of Ground and Polished Surface.

Orig Pub: Sklář a keramik, 1958, 8, No 2, 45-47.

Abstract: The optical parameters of ground and polished surface (S) determining its reflection and refraction or scattering of a bundle of vertically or obliquely incident rays of light are discussed. The degree of polishing can be evaluated with 6 parameters: corrugation (Δ_1), size of local defects or inclu-

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CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Part 2. - Ceramics. Glass. Binders. Concretes. - Glass.

Abs Jour: Ref. Zhurnal Khimiya, No 21, 1958, 71540.

sions (a), depth of microfissures (B), width of indentations (c), length of projections (d), and angle of indentation facet inclination ( ); the first five parameters depend on the wave length of the light incident on the S. Interference methods are usually applied for the determination of Δ_1, the sensitivity of these methods is the greater, the shorter the light wave is. The maximum magnitude admissible to optical glass is: Δ_1/λ = 0.1 to 0.2, where λ is the length of the light wave. The effect of other parameters on the quality of the surface of optical glass and on its reflection capacity depending on the method of surface polish-

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CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Part 2. - Ceramics. Glass. Binders. Concretes. - Glass. H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 71540.

ing and the wave length of light is discussed. The same surface can appear to be mirror-smooth or frosted under different light conditions. The degree of glass tempering greatly influences the optical properties of the surface: the tempering must be the softest for ultraviolet rays of the shortest wave length. The state of the surface film on the surface of optical glass is of great importance.

Card : 3/3

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Binding Materials. Concrete H-13

Abs Jour : Ref Zhur - Khim., No 24, 1958, No 82428

Author : Solc I.
Inst : -
Title : Immersion Control Method for Lens Castings

Orig Pub : Skalr a keramik, 1958, 8, No 3, 69-71

Abstract : Theoretical bases of the immersion method (I) and apparata for control of quality and properties of polished optical glass are presented. With the use of the described apparata when used in conjunction, with instruments that measure angles of polished surfaces (reflectogoniometers, for instance), it is possible to determine the exact quality of castings, to locate imperfections and to establish quality of polished surfaces. For the control of castings it is recommended to use a mixture of benzene and naphthalenemono bromide or a mixture of carbondisulfide and benzene as I liquids. The

Card : 1/2

AUTHOR: Šolc, Ivan CZECH/37-59-3-9/29

TITLE: Exact Orientation of Crystal Cuts by Reflection Konoscope

PERIODICAL: Československý časopis pro fysiku, 1959, Nr 3, pp 267-269

ABSTRACT: A konoscope is an instrument using convergent polarized light for the study of crystal optics. A konoscope can be used to determine the orientation of bi-refringent crystals. A reflection konoscope, which gives very high accuracy of orientation (about 1'), is described here. The crystalline sample is assumed plane-parallel and uni-axial, although this does not have to be so.

Figure 1 shows a schematic diagram of a konoscope. After passing through a condenser and a polarizer, part of the beam is reflected by a glass plate perpendicularly downwards. Lens D forms a convergent beam and this is reflected from a plane miror. The crystal is placed between mirror and lens. The interference effect will be imaged in the focal plane of the lens D and can be observed through an eyepiece and a second polarizer.

From the shape of the image, the orientation can be determined. In particular, the optical axis of the crystal can

Cardl/2

SOLC, I.

"Use of improved equidensitometric method for increasing contrasts in photographies"

Pokroky Matematiky, Fysiky a Astronomie. Praha, Czechoslovakia. Vol. 4, no. 1, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

CZECHOSLOVAKIA/Physical Chemistry - Crystals. B

Abs Jour : Ref Zhur Khimiya, No 19, 1959, 67196

Author : Sole, Ivan
Inst :
Title : Periodic Twin Crystals and Their Use.

Orig Pub : Jemna mech. a opt., 1959, 4, No 2, 53-58

Abstract : The optical properties of twin crystals were studied and the feasibility of their use as monochromatic reflecting filters was pointed out. The preparation of twin crystals of $KClO_3$ from its solutions is described, the physical properties of monocrystals and the optical properties of periodical twin $KClO_3$ crystals are given. -- Author's summary

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- 14 -

Author : Sole, Ivan
Inst :
Title : Measurement of the Resolution of Photographic Emulsions

Orig Pub : Jemna mech. a opt., 1959, 4, No 3, 86-88

Abstract : A method was proposed and realized of the measuring of the resolution of photographic emulsions, based on photography in monochromatic light of a Fresnel zone plate on the investigated emulsion. The regular reduction in the thickness of bright and dark rings in such a plate with increasing diameter makes it easy to find the minimum resolvable distance between rings, after determining the diameter of the largest resolving ring on the photograph. A setup that realizes this method is described and certain of the results are included. -- A.L. Kartuzhanskiy

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END

SOLC, I.

New method of extending the permissible convergency of double-refracting elements. p. 226.

JEMNA MECHANIKA A OPTIKA. (Ministerstvo vseobecniho strojirenstvi) Praha, Czechoslovakia.
Vol. 4, no. 7, July 1959.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 11, Nov. 1959
Uncl.

Solc, I.

CZECHOSLOVAKIA/Optics - Instruments for Optical Analysis. K

Abs Jour : Ref Zhur Fizika, No 1, 1960, 2313

Author : Solc, Ivan

Inst . [illegible]eral Research Institute, Turnov, Czechoslovakia

Title : Chain Birefringent Filters

Orig Pub : Chekhosl. fiz. zh., 1959, 9, No 2, 237-249

Abstract : The chain birefringent filters of the author have been described earlier in many articles (Referat Zhur Fizika, 1957, No 4, 10354; 1958, 12057, 2058, 2059, N No 10, 23841); their theory was given vy Evans (Referat Zhur Fizika 1958, No 11, 26464). In the presant article the following new results are reported, pertaining to filters of this type: the adjustment of the filter to longer or shorter wavelengths by

Card 1/2

respective inclination relative to the optical axis or in a perpendicular direction to it; a method that permits the use of wide-angle (3 -- 5°) beams of light; [illegible] of principal maxima by "retouching" the azimuths of the individual plates. Also described briefly are certain new versions of the filters. Technical data are given along with the practical applications. -- P.G. Kard

Card 2/2

SOLC, I.

PHASE I BOOK EXPLOITATION CZECH/5188

Petržílka, Václav, Professor, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences; Josef B. Slavík, Professor, Doctor, Engineer; Ivan Šolc, Doctor; Oldřich Taraba, Engineer, Doctor; Jan Tichý, Doctor, and Jiří Zelenka, Engineer

Piezoelektřina a její technické použití (Piezoelectricity and Its Technical Use) Praha, Nakl. Československé akademie věd, 1960. 534 p. 1,300 copies printed.

Sponsoring Agency: Československá akedemie věd. Sekce matematicko-fysikální. Scientific Editor: Emanuel Klier, Docent, Doctor; Reviewer: Josef Beneš, Professor, Doctor; Ed. of volume: Antonín Burda.

PURPOSE: The book is intended for students of schools of higher education, physicists, and for scientific and technical personnel concerned with the use of piezoelectricity in electrical engineering, construction, chemistry, biology, medicine, and other fields of science.

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Piezoelectricity and Its Technical Use CZECH/5188

COVERAGE: The book consists of two parts. The first part deals with the basic physical properties of piezoelectric crystals, the vibrations of piezoelectric resonators, and the technology of producing crystal elements. The second part is devoted to applications of piezoelectric crystals in various branches of engineering, particularly the following: the control of the frequency of broadcasting stations and radio transmitters in general; the production of very selective filters used in long-distance telephone lines and single-sideband transatlantic radiotelephone systems; the production of stable oscillators and timekeeping systems; the generation of ultrasonic waves; and measuring technique. About twenty years ago a book written by two of the present authors, V. Petržílka and J. B. Slavík, was published under the title "Piezoelektřina a její použití v technicke praxi" (Piezoelectricity and Its Uses in Engineering Practice). In 1951 the book "Piezoelektřina I " (Piezoelectricity I), written by V. Petržílka and consisting of a major expansion of the physics section of the earlier edition, was published. The present book, written in cooperation with former students of the

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original authors, represents, therefore, a third version of their work. V. Petržílka edited Part I and also wrote Ch. I. I. Solc wrote Ch. V, Par. 4 of Ch. VII, and Ch. XI. J. Tichý wrote Ch. II (except Par. 6), Chs. III, IV (except Par. 6), VI (except Pars. 6 and 9), VII (except Pars. 4 and 5), VIII and IX. J. Zelenka wrote Par. 6 of Ch. VI, Par. 5 of Ch. VII, and Ch. X. V. Janovec, Candidate of Sciences, wrote par. 6 of Ch. II, dealing with ferroelectric materials, Par. 6 of Ch. IV, and, together with Doctor H. Arend, Par. 9 of Ch. VI. Part II was written by O. Taraba in collaboration with J. B. Slavík, who also edited this part of the book. The authors thank the following persons for help in editing the manuscript: J. Hanzl, Engineer; C. Höschl, Docent, Engineer; K. Hruška, Graduated Physicist; K. Kratochvíl, Graduated Physicist; J. Kraus, Engineer; J. Paty, Engineer; J. Rais, Docent, Doctor, Engineer; L. Sodomek, Graduated Physicist, and J. Šmíd, Candidate of Sciences, Engineer. They also thank O. Bareš, Engineer, and Jar. Tarabova for help in drawing the figures and preparing the photographs in Part I and Part II, respectively. References follow each chapter, and a general list of 132 references is given at the end of the book. There is also

Piezoelectricity and Its Technical Use CZECH/5188

a glossary of translations of special terms in piezoelectricity into Czech from the following languages: Russian, English, French, and German.

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PART I.

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SOLC, I., dr.; SMYTR, Vl.

X-ray spectrometer for precision crystal grinding. Jemna mech opt 5 no.2:43-45 F '60.

1. Vyzkumny ustav pro mineraly, Turnov.

20523

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A121/A026

1 1100 2908

AUTHOR: Šolc, I., Doctor

TITLE: Device for Grinding and Polishing of Aspherical Surfaces on Conventional Machines

PERIODICAL: Jemná Mechanika a Optika, 1961, No. 1, p. 33

TEXT: The apparatus described makes possible the use of conventional grinding and polishing machines in machining of aspherical revolving surfaces, especially of those not diverging from spherical ones. It is based on a system of grinding and polishing rings freely attached one upon another. The rings grinding surface has a convex cylindrical shape to ensure a possibly equal contact of polished surface. To permit simultaneous shifting of rings in the course of machining, the outer-ring perimeters have radii equal to the diameters of the rings. Their inner part is cylindrical. The rings may be charged by various weights in order to control the grinding relation between the central and the peripheral zones of the surface. The graduation of rings is recommended in such a way that each ring works on an equal surface, the diameters following the series $\sqrt{1}$, $\sqrt{2}$, $\sqrt{3}$, $\sqrt{4}$, $\sqrt{5}$, etc. Any ring may be used as guide ring, to which a vertical connection to the central cavity of the driving ring is fastened. A connection to the medium

Card 1/2

SOLC, I., dr.; SUCHMAN, B., promovany matematik

Spectral Rutherfurd-Browning and Amici prisms. Jemna mech opt 6 no.4: 126-128 Ap '61.

1. Vyzkumny ustav mineralu, Turnov.

(Prisms)

SOLC, I., dr.

Cylindrical lenses with variable focal distance. Jemna mech opt 6 no.9:286-287 S '61.

1. Vyzkumny ustav pro minerały, Turnov.

SOLC, I., Dr.

Scraping of aspheric surfaces. Jemna mech opt 6 no.12:358-359 D '61.

1. Vyzkumny ustav mineralu, Turnov.

Z/037/62/000/002/01 /015
E073/E535

24,2180

AUTHOR: Šolc, I.

TITLE: Certain problems of the technology of working piezo-electric sections

PERIODICAL: Československý časopis pro fysiku, no.2, 1962, 165-171

TEXT: A description is given of the procedure of cutting, grinding and polishing piezo-electric sections. The problem of polishing is dealt with in somewhat greater detail, primarily on the basis of published information. The importance of further study of the problem of producing polished sections is emphasized. There are 8 figures.

ASSOCIATION: Výzkumný ústav monokrystalů, Turnov
(Research Institute for Single Crystals, Turnov)

SUBMITTED: November 20, 1961

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SOLC, I., dr.; KOTLERCVA, J.; DEDEK, J.

Experience with grinding the aspheric surfaces in using ring-shaped instruments. Jemna mech opt 7 no.1:2-3 Ja '62.

1. Vyskumny ustav pro mineraly, Turnov.